



COMMONWEALTH of VIRGINIA

DEPARTMENT OF FORENSIC SCIENCE

CENTRAL LABORATORY
A Nationally Accredited Laboratory

700 NORTH 5TH STREET
RICHMOND, VIRGINIA 23219
(804) 786-6971

CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT: Intox EC/IR II
SERIAL NUMBER: 010487
CERTIFICATION DATE: February 11, 2014
DATE RECERTIFICATION DUE: August 10, 2014

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science as required by §9.1-1101 (B)(3). Measurement traceability is established through the use of reference materials supplied by an ISO/IEC 17025:2005 accredited calibration laboratory.

Estimation of Uncertainty of Measurement:

0.020 ± 0.004 g/210 L	0.150 ± 0.007 g/210 L
0.080 ± 0.004 g/210 L	0.250 ± 0.007 g/210 L

The Uncertainty of Measurement is reported at the 99.73% level of confidence and a coverage factor of $k=3$. The estimation of the Uncertainty of Measurement is calculated for the Certification process only.

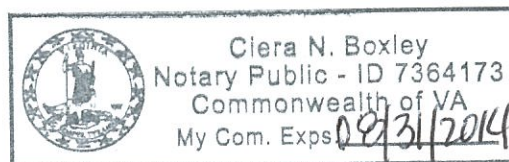
Michelle M. Billeter
Forensic Scientist

CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 20th day of
February, 2014 by Michelle M. Billeter

Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014
TLN



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Department of Forensic Science
Breath Alcohol Section
Instrument Maintenance History
1/1/1990 To 2/14/2014

Instrument Serial Number: 010487	As of 14-Feb-14
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Maintenance Date	Certification Date	Technician Initials	Remarks
11-Feb-14	11-Feb-14	MMB (26417)	CERTIFIED.
09-Jan-14	30-Aug-13	MMB (26417)	REPLACED DRY GAS STANDARD.
30-Aug-13	30-Aug-13	MMB (26417)	FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED. REPLACED DRY GAS STANDARD.
12-Mar-13	12-Mar-13	HMS (18910)	CERTIFIED
25-Oct-12	25-Oct-12	DBH (21250)	FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED.
29-Dec-11	29-Dec-11	HMS (18910)	CERTIFIED, REPLACED DRY GAS STANDARD.
24-Oct-11	15-Jul-11	HMS (18910)	REPLACED DRY GAS STANDARD.
22-Sep-11	15-Jul-11	HMS (18910)	REPLACED DRY GAS STANDARD.
15-Jul-11	15-Jul-11	DBH (21250)	CERTIFIED
11-Jul-11	01-Apr-11	HMS (18910)	SITE VISIT CONDUCTED.
20-Jun-11	01-Apr-11	HMS (18910)	REPLACED DRY GAS STANDARD.
01-Apr-11	01-Apr-11	HMS (18910)	CERTIFIED
06-Nov-09	06-Nov-09	SED (24178)	REPLACED TANK TOP LID, CERTIFIED.
03-Nov-09	03-Nov-09	MSK (21355)	REPLACED DIGITAL DISPLAY, CERTIFIED.
27-Apr-09	27-Apr-09	DBH (21250)	FIRMWARE/SOFTWARE UPGRADE, CERTIFIED.
23-Dec-08	07-Nov-08	DBH (21250)	REPLACED KEYBOARD. REPLACED PAPER OUT SWITCH IN PRINTER.
07-Nov-08	07-Nov-08	HMS (18910)	CERTIFIED.
24-Oct-08	24-Oct-08	NMJ (22392)	CALIBRATED, CERTIFIED AND ACCEPTED.

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INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number **010487** Worksheet Start Date **2/11/2014**
 Location **Richmond 4th PD**
 Address **2219 Chamberlayne Ave Richmond VA 23222**
 DFS Technician **Michelle Billeter** License No. **26417**

☐ Laboratory ☒ On-Site

Site Specification: No detrimental environmental conditions exist. ☒

Instrument Barometer (mm HG) **769** Reference Barometer (mm HG) **768**
 Reference Barometer(RB)Serial # **009111** RB Calibration Due **5/23/2014**

Measurement Assurance Check

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.308
0.300	0.304	0.294	0.313	Sample 2	0.308
Precision		sample min	sample max	Sample 3	0.307
0.001		0.307	0.308		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.103
0.100	0.101	0.097	0.104	Sample 2	0.102
Precision		sample min	sample max	Sample 3	0.103
0.001		0.102	0.103		

Dry gas standard Lot No. (with tank no.) **AG226201-18**

☐ Replaced dry gas standard (+O-ring)

☐ Installed at Location

☐ Removed to DFS-Central

Supplies
 Mouthpieces
 Certificates of Analysis
 Operator Worksheet
 Other:



Notes:

[Large blank area for notes]

Instrument Serial Number

010487

Certification Date

2/11/2014

☐ Calibrated☒ Certified☒ Measurement Assurance Check☒ Instrument Test☐ Troubleshooting/Maintenance Worksheet Completed

(Successful completion denotes satisfactory condition of the item.)

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.255
0.250	0.253	0.245	0.260	Sample 2	0.255
Precision		sample min	sample max	Sample 3	0.255
0		0.255	0.255		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.153
0.150	0.152	0.147	0.156	Sample 2	0.153
Precision		sample min	sample max	Sample 3	0.153
0		0.153	0.153		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.081
0.080	0.081	0.078	0.084	Sample 2	0.082
Precision		sample min	sample max	Sample 3	0.082
0.001		0.081	0.082		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.019
0.020	0.020	0.017	0.023	Sample 2	0.020
Precision		sample min	sample max	Sample 3	0.020
0.001		0.019	0.020		

All measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

DFS Technician

Michelle Billeter

Date

2/14/14

Issuing Analyst

Michelle Billeter

Date

2/18/14

Intox EC/IR-II: Certification*Department of Forensic Science*

Serial Number: 010487 Test Number: 1767

Test Date: 02/11/2014 Test Time: 09:34 EST

Technician Initials: MMB

Dry Gas Target: 0.253

Lot Number: 0651225015-02 Exp Date: 04/01/2014

Tank Pressure: 325 psi Barometric Pressure: 768 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	09:34
BLK	0.000	09:35
CHK	0.255	09:36
BLK	0.000	09:38
CHK	0.255	09:38
BLK	0.000	09:40
CHK	0.255	09:41
BLK	0.000	09:43

Success

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

mmB

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010487 Test Number: 1768
Test Date: 02/11/2014 Test Time: 09:44 EST

Technician Initials: MMB

Dry Gas Target: 0.152

Lot Number: 0651215014-04 Exp Date: 04/01/2014

Tank Pressure: 737 psi Barometric Pressure: 769 mmHg
System Check: Passed

Test	g/210L	Time
DIAG	Pass	09:45
BLK	0.000	09:46
CHK	0.153	09:46
BLK	0.000	09:48
CHK	0.153	09:49
BLK	0.000	09:50
CHK	0.153	09:51
BLK	0.000	09:53

Success

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

Intox EC/IR-II: Certification*Department of Forensic Science*

Serial Number: 010487 Test Number: 1769

Test Date: 02/11/2014 Test Time: 09:54 EST

Technician Initials: MMB

Dry Gas Target: 0.081

Lot Number: 0651208012-01 Exp Date: 04/01/2014

Tank Pressure: 889 psi Barometric Pressure: 769 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	09:54
BLK	0.000	09:55
CHK	0.081	09:56
BLK	0.000	09:57
CHK	0.082	09:58
BLK	0.000	09:59
CHK	0.082	10:00
BLK	0.000	10:02

Success

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

mmB

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010487 Test Number: 1770
Test Date: 02/11/2014 Test Time: 10:03 EST

Technician Initials: *MMB*

Dry Gas Target: *0.020*

Lot Number: 0651202011-04 Exp Date: 04/01/2014

Tank Pressure: 1056 psi Barometric Pressure: 769 mmHg
System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	10:03
BLK	0.000	10:04
CHK	0.019	10:05
BLK	0.000	10:06
CHK	0.020	10:07
BLK	0.000	10:08
CHK	0.020	10:09
BLK	0.000	10:10

Success

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success

mmB

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010487 Test Number: 1771

Test Date: 02/11/2014 Test Time: 10:13 EST

Dry Gas Target: 0.304

Lot Number: AG321804-04 Exp Date: 08/06/2015

Tank Pressure: 345 psi Barometric Pressure: 769 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	10:15
CHK	0.308	10:15
BLK	0.000	10:17
CHK	0.308	10:18
BLK	0.000	10:20
CHK	0.307	10:21

Test Status: *Success*

Calibration CRC: AF74C041

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010487 Test Number: 1772

Test Date: 02/11/2014 Test Time: 10:25 EST

Dry Gas Target: 0.101

Lot Number: AG226201-18 Exp Date: 09/18/2014

Tank Pressure: 806 psi Barometric Pressure: 769 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	10:25
CHK	0.103	10:26
BLK	0.000	10:28
CHK	0.102	10:29
BLK	0.000	10:30
CHK	0.103	10:31

Test Status: *Success*

Calibration CRC: AF74C041




COMMONWEALTH OF VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

NAME OF ACCUSED INSTRUMENT, TEST,	NAME OF COURT DFS
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BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY BILLETER, MICHELLE, M		AGENCY DFS Central Lab
DFS LICENSE NUMBER 26417	LICENSE EXPIRES 10/01/2014	DATE TEST CONDUCTED 02/11/2014
TEST EQUIPMENT NUMBER 010487		

RESULTS: TIME SAMPLE TAKEN 10:39 EST
SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS _____ DAY OF _____, 20_____.

BREATH TEST OPERATOR

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS _____
SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS _____
OPERATOR'S SIGNATURE



IntoxNet MIS Report

Report Generated 14 Feb 2014 at 13:50

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Test Results

Instrument Serial Number 010487

Test # 001773 Subject Test

Test Location 1 Department of
Test Date 11 Feb 2014

Test Location 2 Forensic Science
Test Time 10:33
Remote/Local Local

Test Location 3
System Check Passed

Operator's Last Name BILLETER
Agency DFS Central Lab

Operator's First Name MICHELLE

Operator's Middle Initial M
License Number 26417

Card Serial Number 126417

Effective Date 10/01/2012

Expiration Date 10/01/2014

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 11 Feb 2014 End Time 10:41

Result Time 10:39

Result Date 11 Feb 2014

Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 10:33

Data Type BLK

Sample Value 0.000

Sample Time 10:34

Data Type CHK

Sample Value 0.103

Sample Time 10:35

Data Type BLK

Sample Value 0.000

Sample Time 10:36

Data Type SUBJ

Sample Value 0.000

Sample Time 10:37

Data Type BLK

Sample Value 0.000

Sample Time 10:38

Data Type SUBJ

Sample Value 0.000

Sample Time 10:39

Data Type BLK

Sample Value 0.000

Sample Time 10:40

Standard Type Dry Gas Std

Standard Value 0.101

Standard Lot Number AG226201-18

Standard Expiration Date 09/18/2014

Tank Pressure 801

Barometric Pressure 768 mmHg

Blow Sample Number 1 Blow Duration 3.00 sec

Blow Volume 1738 cc End-of-Blow Time 10:37

Blow Sample Number 2 Blow Duration 3.52 sec

Blow Volume 1832 cc End-of-Blow Time 10:39

Tamper Evident Stamp 998dc2cc

Test Status Code 0

Test Status Success